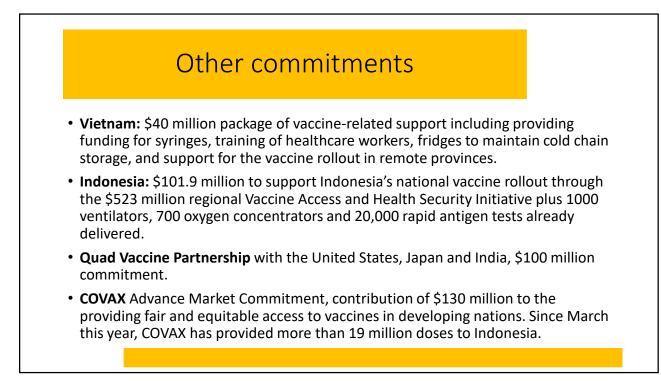


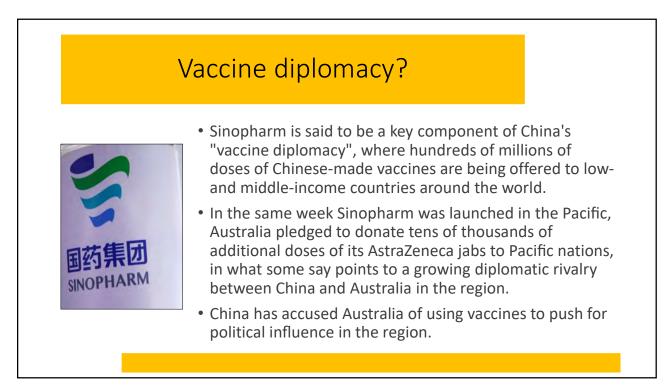
Australian vaccine donations

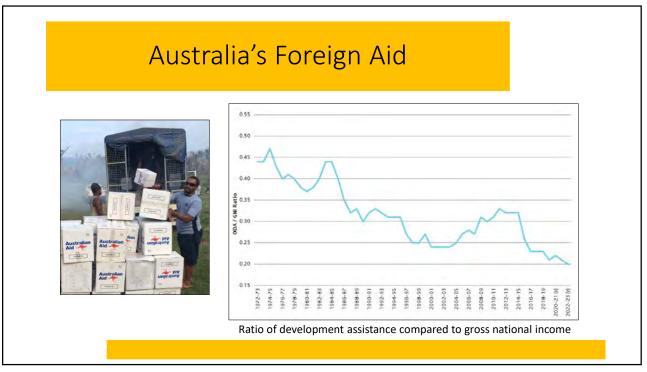
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| Country | Commitment |
|--|--|
| Vietnam | 0.4 million AZ as 1 st instalment of 1.5 million doses. |
| Indonesia | 0.5 million AZ as 1 st instalment of 2.5 million doses. |
| Papua New Guinea, East Timor and | Pledged to share up to 15 million vaccine doses with Pacific nations and East Timor by mid-2022. Several million AZ jabs have already been |
| Pacific Islands | distributed. |

TOTAL: 19 million doses shared; 256 million doses for us.











- It was hoped to buy enough doses to vaccinate at least 20% of people in 92 poorer countries by the end of 2021. It's way off target. Rich nations pushed COVAX to the back of the queue of buyers, and it has struggled with procurement, delivering just 163 million doses, far short of the billions needed. Disappointingly, the G7 agreed to donate less than 8% of the required doses to COVAX.
- In addition, the U.S. renounced COVAX, and France and Germany, though officially part of the global collaboration, have already made deals with pharmaceutical companies to secure vaccines for their populations and will not purchase them through the international effort.
- Critics are also concerned COVAX does not require vaccines be made available at cost and has not secured open access licenses that would allow knowledge sharing and distribution sector.

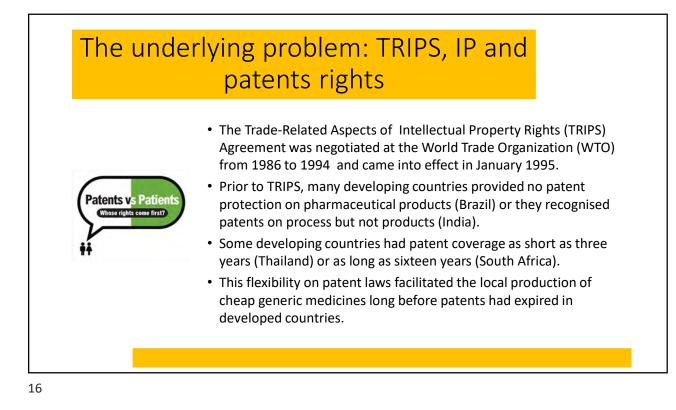


Failure of current schemes to address inequality: C-TAP

- In May 2020, WHO launched C-TAP, the Covid-19 Technology Access Pool, an initiative of Costa Rica with the support of 36 other countries.
- C-TAP called on vaccine developers to share vaccine know-how through pooling and voluntary licensing agreements in a pandemic.
- It especially asked that companies who had received public funding to develop COVID-19 related products deposit all their intellectual property, test data, processes, and safety information into C-TAP.
- But no major company with a WHO approved vaccine has agreed to share technology with C-TAP.
- Most governments are reluctant to make it compulsory to share such knowledge. There was some hope that Oxford University's vaccine, developed through public funding, would be made open source, but the rights are assigned exclusively to AstraZeneca, which has not been fully transparent about its pricing and other sub-licensing terms.



- In June 2021, WHO announced that it was working with a consortium of South African vaccine companies, universities, and the Africa Centres for Disease Control and Prevention to establish its first covid mRNA vaccine hub.
- The aim was to expand the capacity of low- and middle-income countries (LMICs) to produce COVID-19 vaccines and scale up manufacturing to increase global access to these critical tools to bring the pandemic under control.
- The technology used was to either free of intellectual property constraints in LMICs, or that such rights are made available through non-exclusive licenses to produce, export and distribute the COVID-19 vaccine in LMICs, including through the COVAX facility.
- However, Pfizer and Moderna (the two manufacturers of mRNA vaccines) have so far declined requests to enter into voluntary licensing agreements with low and middleincome countries.

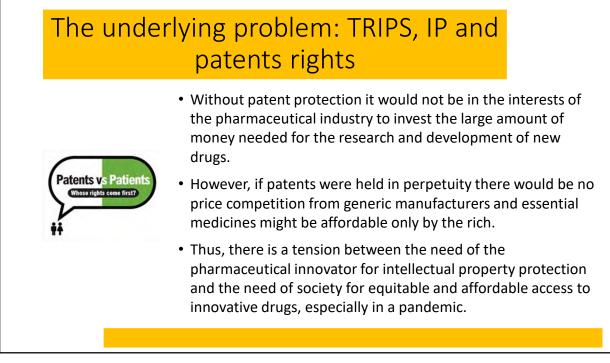


The underlying problem: TRIPS, IP and patents rights

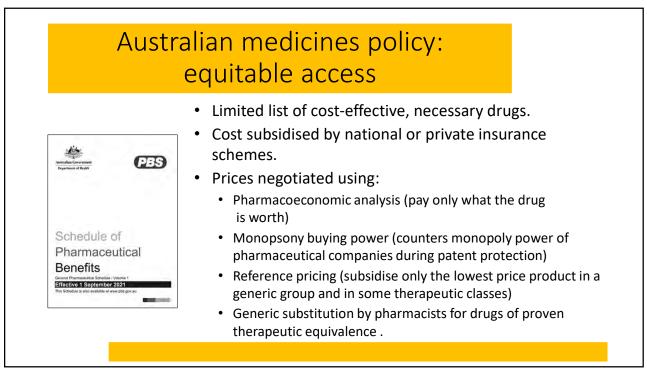
- Developed countries with a research based pharmaceutical industry, particularly the USA, used the TRIPS Agreement to remove the flexibility previously given to Member States.
- TRIPS required all countries, both developed and developing, to grant patent protection for pharmaceutical products and processes for 20 years (although developing countries were given longer periods in which to implement these changes).

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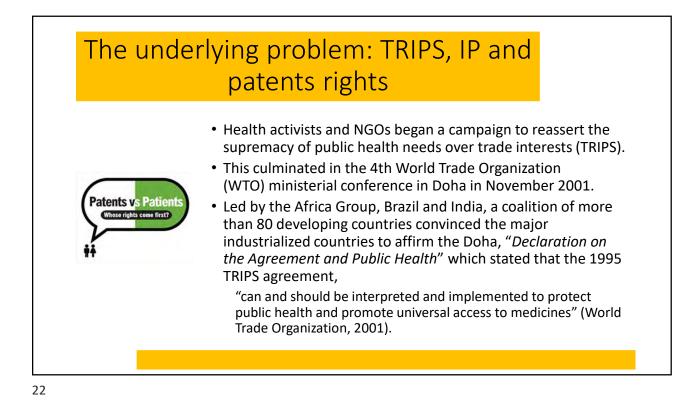
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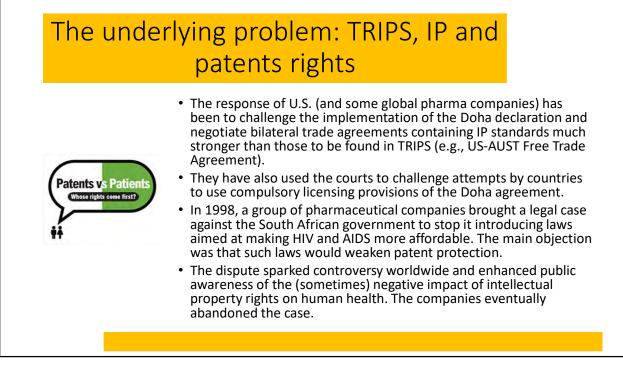


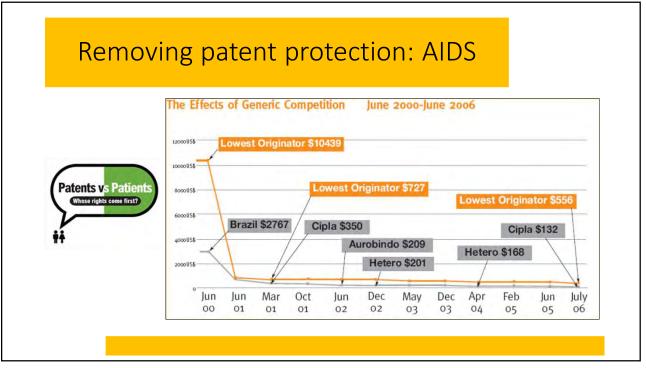


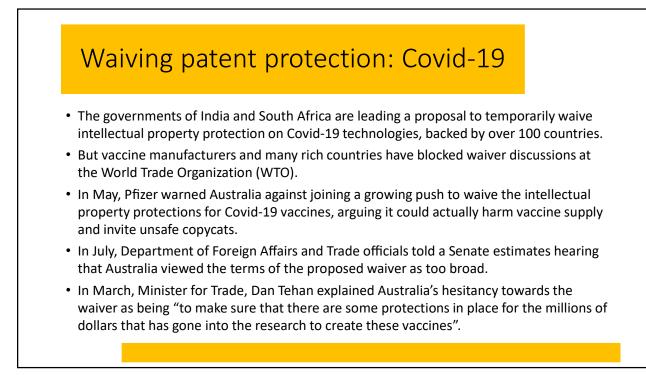


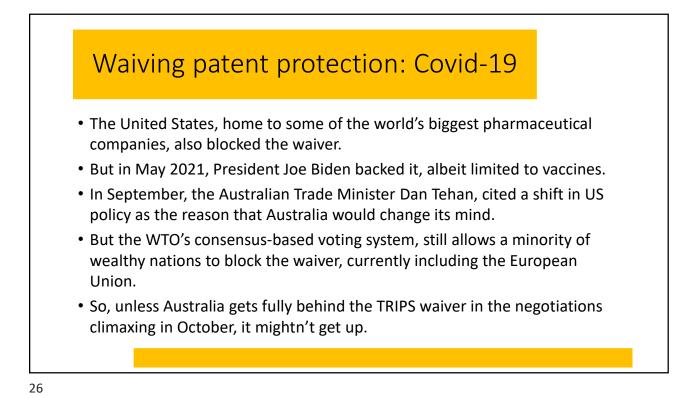












Discussion: Should Australia support the Covid-19 technology waiver?



Hon Dan Tehan MP Minister for Trade, Tourism and Investment dan.tehan.mp@aph.gov.au

- According to Medicines Australia and AusBiotech, patents are not the cause of the global problem which has seen just one per cent of the population in low-income countries receive at least one dose of a COVID-19 vaccine.
- "The proposed patent waiver is a wishful solution to a complex problem," de Somer and Chiroiu from Medicines Australia said.
- "Waiving patents for COVID-19 vaccines and therapies will not address the real challenges to vaccinating the world: eliminating trade barriers, addressing bottlenecks in supply chains, and a greater willingness to share more doses with developing countries".
- What do you think?
- And what action could you take?

Is progress possible: Salk polio vaccine



- In 1955, Jonas Salk announced the development of a polio vaccine in the midst of a huge epidemic. The news was initially met with scepticism.
- When a huge placebo-controlled clinical trial involving 1.6 million children proved him right, he declared that in order to maximise the global distribution of this lifesaving vaccine his lab would not patent it. Asked who owned the patent, he famously replied:
 - 'Well, the people I would say. There is no patent. Could you patent the sun?'

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Covid-19 vaccine passports?



Issues:

- Vaccine risks and benefits.
- Rising incidence of infection and death with delta variant.
- Hospital and ICU admissions increasing.
- Can test, trace, isolate and quarantine (TTIQ) measures be maintained?
- Can masks, social distancing, ventilation, and lockdowns be maintained?
- What about Australian vaccine inequality?
- Should employers, State or Commonwealth impose vaccine & testing mandates?

| | AstraZeneca | Pfizer | Moderna | Novavax (not yet) | | |
|----------------------|---|--|------------------|------------------------------|--|--|
| Туре | Adeno virus vector | mRNA | mRNA | Sub-unit protein | | |
| Doses | 2, 4-12 weeks apart | 2, 21 days apart | 2, 28 days apart | 2, 21 days apart | | |
| Effectiveness | All appear equally effective in preventing death and severe disease. Virus load and transmission may be reduced. But immunity wanes with time. Covid-19 variant breakthrough infection can occur. | | | | | |
| Side effects: mild | | Injection site pain, fatigue, headache, muscle pain, chills, joint pain, fever, nausea, feeling unwell and swollen lymph nodes | | | | |
| Side effects: severe | Thrombosis (TTS) 1 to 2 per 100,000 Fatalities around 0.5 to 1 per million | Myocarditis and pericarditis Females around 16 per million Males around 37 per million | | None to-date | | |
| Storage | Normal fridge (2°C to 8°C | Domestic freezer temperatures (-25°C to -15°C) for up to 2 weeks | | Normal fridge (2°C to 8°C | | |
| Cost | \$4 | \$31 | \$41 | \$22 | | |

